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May 3, 2018

Sam Grenlie, P.E., E.E.
UDEQ
195 North 1950 West
Salt Lake City, UT 84116

RE: Big Water, Water Improvements Project, PN3F270, System #13003, File #10497

Dear Sam,

As you know, the Town of Big Water has completed most of the project scope items that were included in the original funding that was authorized by the Drinking Water Board. There is currently a remaining project contingency of about \$302,000. There was an original contingency of around \$92,000. The added contingency is a result of several items, including 1) lower bids for the Automatic Meter Reading System (AMR); 2) reduction in the cost for the town to purchase the water system from the GCSSD; and 3) elimination of administrative costs and debts service reserve (from funding eligibility) that were included in the original budgeting.

From the remaining contingency the Town still needs to purchase a generator for their wells. This was part of the original project scope. The following is a list of items that the Town would like to add to the project scope so that the project contingency may be applied.

Generator	Original Scope	\$ 100,000.00
Additional Pipeline Upsizing	Added	\$ 81,600.00
SCADA Repairs & Upgrades	Added	\$ 25,000.00
Re-equip Well	Added	\$ 25,000.00
Backhoe & Trailer	Added	\$ 22,500.00
Truck	Added	\$ 35,000.00
		\$ 289,100.00

Additional Pipeline Replacement - While addressing the original scope of pipeline replacements, the Town has encountered three other sections (approximately 850 feet each) of old, 4" pipeline. This request includes using contingency funds to replace those sections of pipeline with 8" PVC pipe, valves, and fittings meeting DDW standards.

SCADA Repairs and Upgrades - Over the years the SCADA system for the water system has been repeatedly damaged by lightning and other power issues and has become outdated and mostly unusable. The operator must often manually check the tank levels, and at times the wells will overflow the tank due to faulty

communications. The Town has had the SCADA system inspected by a contractor and received preliminary cost estimates for options to repair/replace most of the components.

Re-Equip North Well - The pump and motor in the Town's North Well have become worn and less efficient. The Town would like to use funds from the project contingency to re-equip the well now instead of waiting for a complete failure.

Backhoe, Trailer, Vehicle - Being a small system with only one maintenance employee, the Town often must hire out for equipment and labor to perform routine system maintenance. For routine tasks that the operator can perform on his own, the Town would like to acquire a used backhoe and trailer and has received price quotes for this. Another goal, but not as high of a priority, would be to purchase a 1-ton truck for the operator to transport the backhoe and trailer. The water system's current truck is an older half ton pickup that has taken on a lot of wear and would not be capable of pulling a trailer and backhoe. When needed now, the operator uses his personal vehicle to pull such equipment.

Please let me know if you have any questions or need additional information. We appreciate your efforts on behalf of the Town of Big Water.

Sincerely,



Dustyn Shaffer, P.E.
Project Engineer

Cc: Mayor Schmuker, Town of Big Water

DRINKING WATER BOARD
BOARD PACKET FOR CONSTRUCTION LOAN
CHANGE FOR ADDITIONAL SCOPE

APPLICANT'S REQUEST

A loan of \$1,228,000 for 30 years with a 2.45% interest rate and \$176,000 in principal forgiveness was previously awarded to Big Water Town by the Drinking Water Board in 2016.

At this point in the construction project, **Big Water Town has a remaining contingency budget of approximately \$302,000.** The Town would like to use these remaining funds towards additional drinking water system improvements.

STAFF COMMENTS:

The **original scope of work** includes 1) refurbishing an existing 100,000 gallon concrete tank for use in the culinary water system 2) add a standby power generator and fuel tank to the well pump house for emergency backup 3) acquire and install radio read meters and data collection system to improve metering accuracy and reduce operational costs and 4) install a new 8" distribution line, and maintenance and replacement of 4 PRV facilities.

Big Water requests to following items under and expanded scope, which comes at an estimated cost of \$289,100:

- Additional Pipeline Replacement - While addressing the original scope of pipeline replacements, the Town has encountered three other sections (approximately 850 feet each) of old, 4" pipeline
- SCADA Repairs and Upgrades – Over the years the SCADA system for the water system has been repeatedly damaged by lightning and other power issues and has become outdated and mostly unusable.
- Re-Equip North Well - The pump and motor in the Town's North Well have become worn and less efficient. The Town would like to use funds from the project contingency to re-equip the well now instead of waiting for a complete failure.
- Backhoe, Trailer, Vehicle - Being a small system with only one maintenance employee, the Town often must hire out for equipment and labor to perform routine system maintenance.

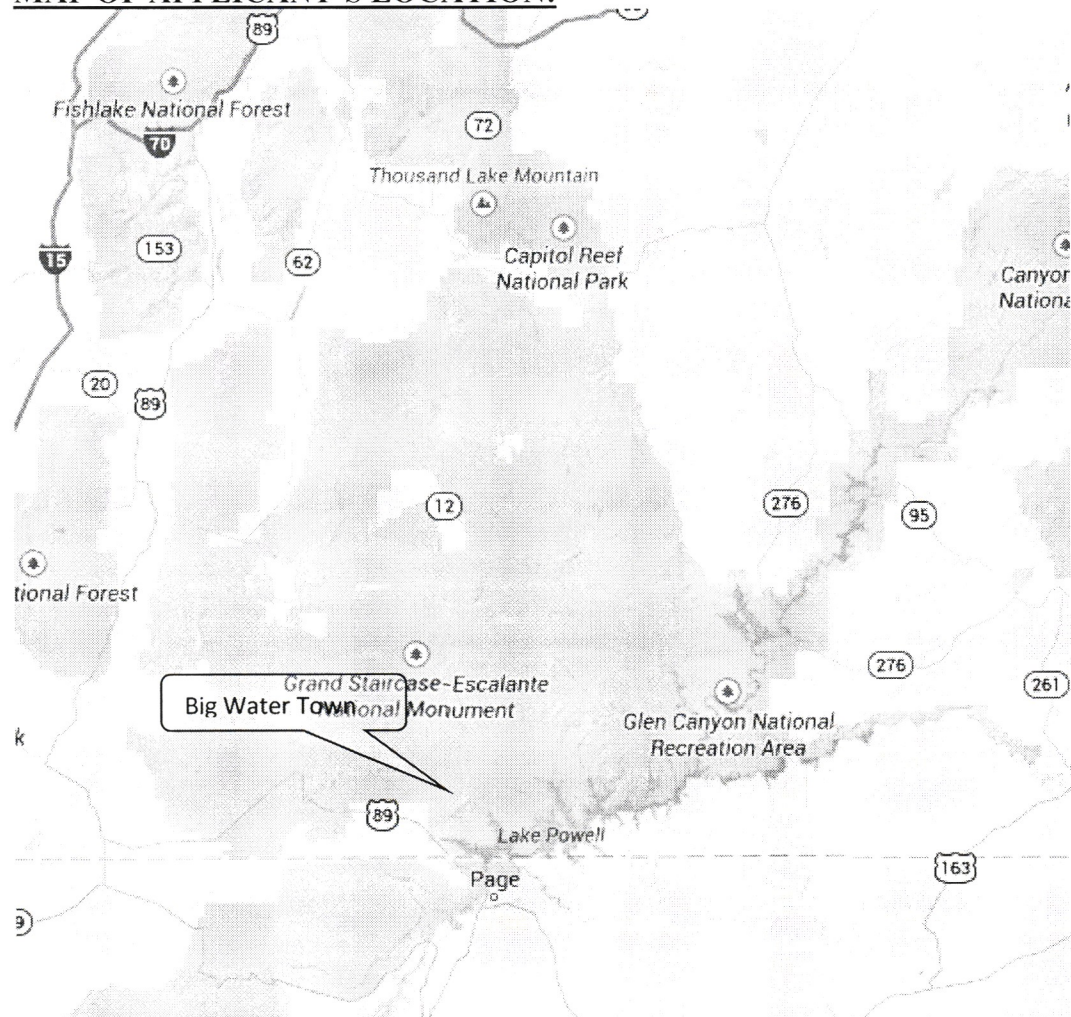
Please see the attached documentation including a discussion of the additional work and a itemized cost-estimate.

Glen Canyon/Big Water Town
Presented to the Drinking Water Board
July 8, 2016

APPLICANT'S LOCATION:

Big Water Town City is located in Kane County.

MAP OF APPLICANT'S LOCATION:



Glen Canyon/Big Water Town
Presented to the Drinking Water Board
July 8, 2016

CONTACT INFORMATION:

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